

Application of Rationals: 12 pt assignment

Name _____

Now that you can graph and analyze rational equations for asymptotes and other characteristics, let's dig into some equations that have meaning... that have application.



Wildlife Example p. 151 (C)

Solve without a calculator:

What does the graph say:

Cost Benefit Model p. 146

Additional Q: How does the Vertical Asy. relate to removing pollutants?

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1. p.158 #64

- (a) You are being asked to write a simple area formula using x & y , then solve the equation for y
- (b) In other words, what x values are possible allowed for this rectangle / equation (it will be a range of numbers)
- (c) Go ahead and do these two questions as asked

Additional Q – explain how the behavior of the graph relates to the area of this rectangle...

...say more than *"it gives the area"*

2. p. 159 #69 This concentration will be a percentage, but written as a decimal... so $C = 1$ represents 100%

- (a) Identify the Horizontal Asy. then make an intelligent statement about what the Horizontal Asy. has to do with chemical concentration
- (b) Window Help: $0 \leq x \leq 24$ hours $-1.5 \leq y \leq 1.5$
- (c) Answer should be written as before: _____ and after: _____

3. p. 159 #68 This is a graphing calculator question.

4. p. 150 #36

- (a)(b)(c) are all straight forward

Additional Q1 – What do you notice about these costs and how does the changing behavior relate to the rational function?

- (d) Go ahead and graph it, but ignore the books "explaining" question

Additional Q2 – How does the graph match your answer to Additional Q1

- (e) Say more than "yes" or "no"

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